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12 Pages

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April 1964

[redacted]

PHOTOGRAPHIC INTERPRETATION REPORT

MISSILE DEVELOPMENT AND PRODUCTION CENTER AT DNEPROPETROVSK, USSR

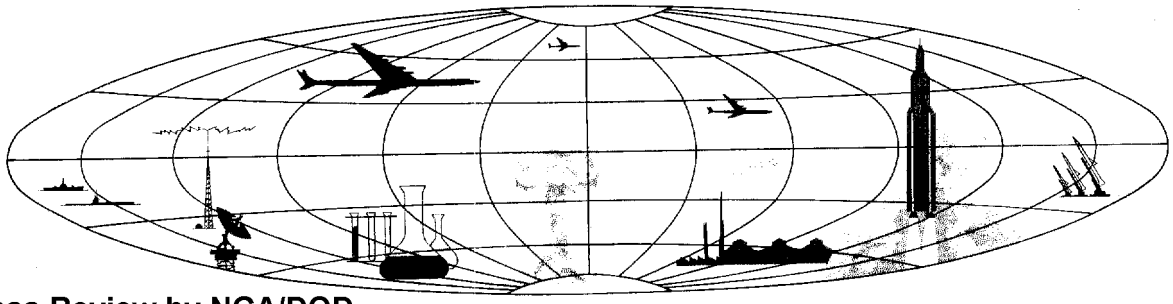
CIA

DIA

25X1D

25X1

NATIONAL PHOTOGRAPHIC INTERPRETATION CENTER



Declass Review by NGA/DOD

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PHOTOGRAPHIC INTERPRETATION REPORT

MISSILE DEVELOPMENT AND PRODUCTION CENTER AT DNEPROPETROVSK, USSR

[redacted]

25X1D

NPIC/R-250/64

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25X1

FIGURE 1. MISSILE DEVELOPMENT AND PRODUCTION CENTER, DNEPROPETROVSK, USSR,

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SUMMARY

Photography of the Dnepropetrovsk Missile Development and Production Center, USSR, obtained in [redacted] is of the best quality that has been obtained of that installation to date. The best previous photography of this installation was obtained in [redacted] and a number of changes have taken place since that time. These include completion of three major production buildings which add approximately 390,000 square feet of roof cover; construction in progress of an additional production building; the building of several smaller industrial, storage, and testing structures; and an increase in size of approximately 25 percent in the secured area of the center's test facility. The [redacted] photography also reveals a number of details of the installation which heretofore have not been discernible.

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INTRODUCTION

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The Dnepropetrovsk Missile Development and Production Center (DMDPC) [redacted] is located at 48-26N 34-59E on the southern edge of the city of Dnepropetrovsk, USSR (Figure 1). It has been built since World War II and was originally designed to produce motor vehicles. It is now one of the major installations involved in the Soviet missile program.

DMDPC was first clearly seen on photography of [redacted], and a report was compiled based on that photography. 1/ Subsequent coverage in [redacted] produced the best photography of the installation that had been obtained to date. The purpose of this report is to describe changes that have taken place between [redacted] and to describe details of the installation which heretofore have not been discernible. The dimensions given in this report are derived from good-quality photography by improved mensuration techniques and may not necessarily agree with previously published figures.

The installation consists of three contiguous yet distinct parts: Plant Post Box 186 on the northeast side, Plant Post Box 192 in the center, and the Test Facility on the southwestern side (Figure 1). Each part is separately walled or fenced and little direct access is evident between parts. Rail spurs enter all three areas.

PLANT POST BOX 186

Plant Post Box 186 constitutes the major part of the Dnepropetrovsk Missile Development and Production Center and accounts for about half of the total acreage of the installation (Figures 2 and 3). This facility contains a powerplant, 18 major production buildings, and numerous smaller administration, storage, and miscellaneous structures. A rail spur enters the plant area from the west, and branches of this spur serve most of the build-

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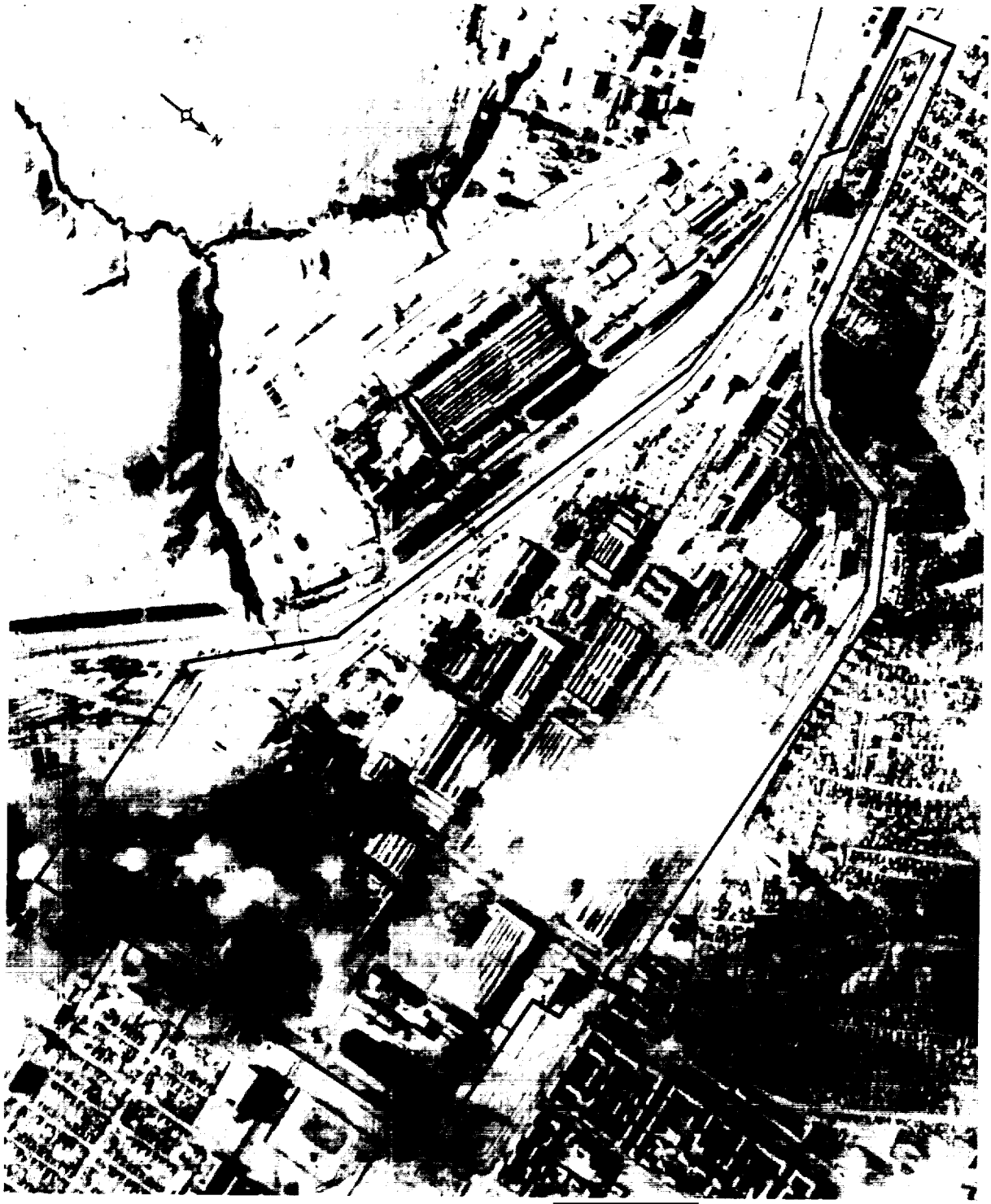

FIGURE 2. PLANT POST BOX 186, [redacted]

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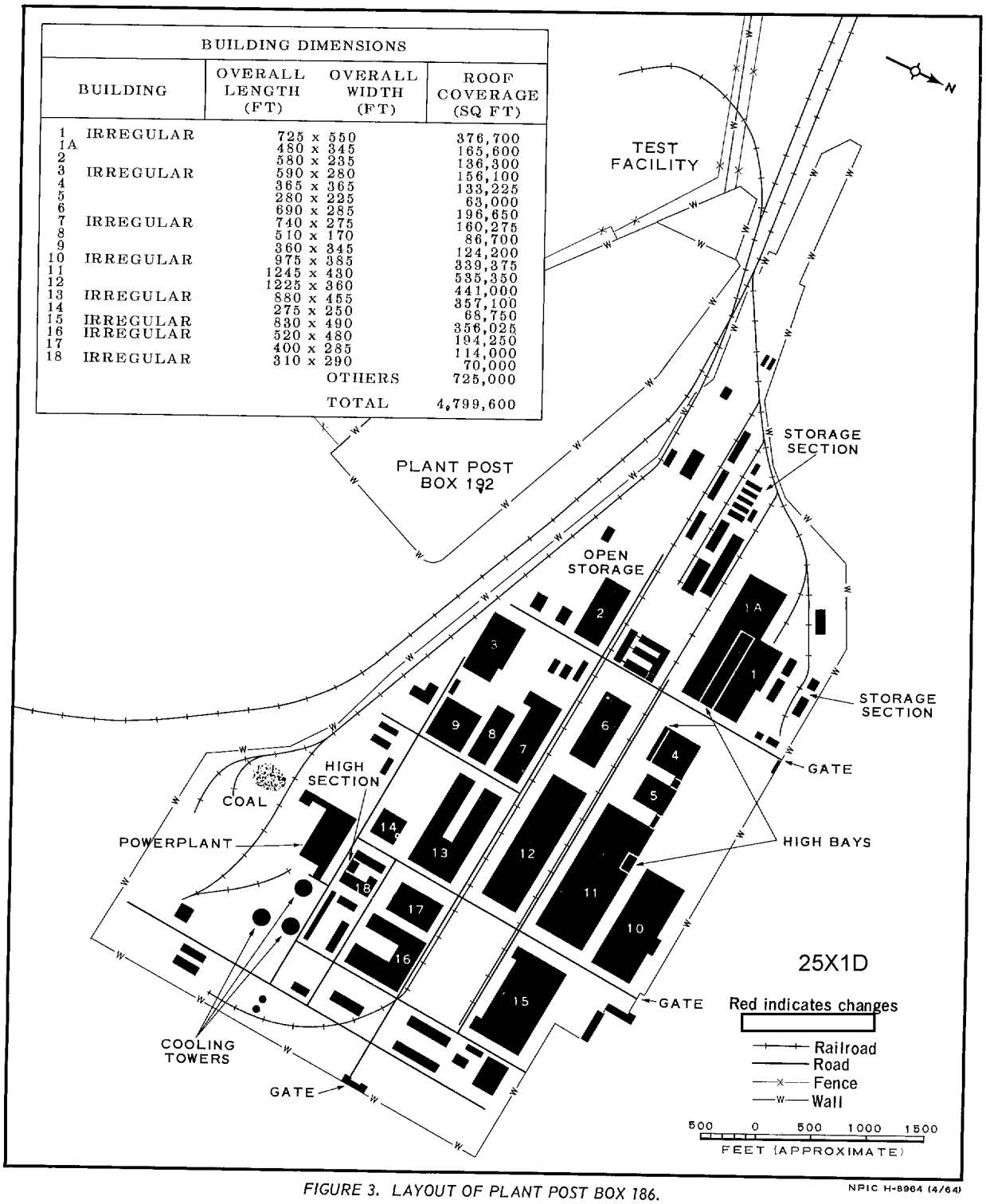

FIGURE 3. LAYOUT OF PLANT POST BOX 186.

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ings. The entire area is surrounded by a wall which has main entrances on the north and east.

Several changes have taken place at this plant since [redacted] The wall around the plant area has been extended approximately 1,300 feet westward along the rail line to enclose an additional seven acres which will probably be used for storage purposes. Some light-colored earth scarring was seen in this area on photography of [redacted] but the enclosing wall was first seen on photography of [redacted] This part of the plant was cloud covered during an intervening photographic mission of [redacted]

Another change since [redacted] is the construction of an addition (item 1A, Figure 3) to the large final assembly building (item 1) in the western part of the area. This addition measures approximately 480 by 345 feet, and the 165,600 square feet of added roof coverage represents an increase of more than 40 percent in the roof coverage of the final assembly building. Construction began on this addition some time after [redacted] Haze and heavy cloud shadow obscured the site on photography of [redacted] preventing a determination of the construction status at that time. In [redacted] the addition appeared to be nearing completion with some work possibly remaining to be done on the roof. One monitor is evident on the northern end of the roof, and other monitors will probably be constructed on the remaining portion.

A third significant change is the construction of a production building (item 3), measuring 590 by 280 feet, in the southern portion of the plant area. A small patch of light-toned earth scarring seen at the site on photography of [redacted] may have represented initial construction efforts. Photography of [redacted] revealed the rectangular outline of the foundation, and [redacted] photography revealed the structure nearing completion. Its roof structure consists of two rows of three wide monitors, parallel to the long axis of the building. The outside roof edges appeared indefinite, indicating that construction may be incomplete.

Several smaller storage and miscellaneous buildings have also been constructed since [redacted] their total roof coverage, however, is small, representing a relatively insignificant addition to the plant. Significant roof coverage added at the plant since [redacted] is 321,700 square feet, giving the plant 4,799,600 square feet.

PLANT POST BOX 192

Plant Post Box 192 is located between Plant Post Box 186 and the Test Facility along the south side of the main rail line running through the complex (Figure 4). The main part of this area is walled and contains one large final assembly building (item 8, Figure 4) and seven smaller production buildings. A contiguous walled/fenced area on the southeast contains one small industrial building and several miscellaneous buildings. In addition, a number of other buildings, several of which are of recent construction, are scattered outside the secured areas on the south and east and may also be associated with this plant.

Several changes of significance have taken place at Plant Post Box 192 since [redacted] An extension of the large walled area 600

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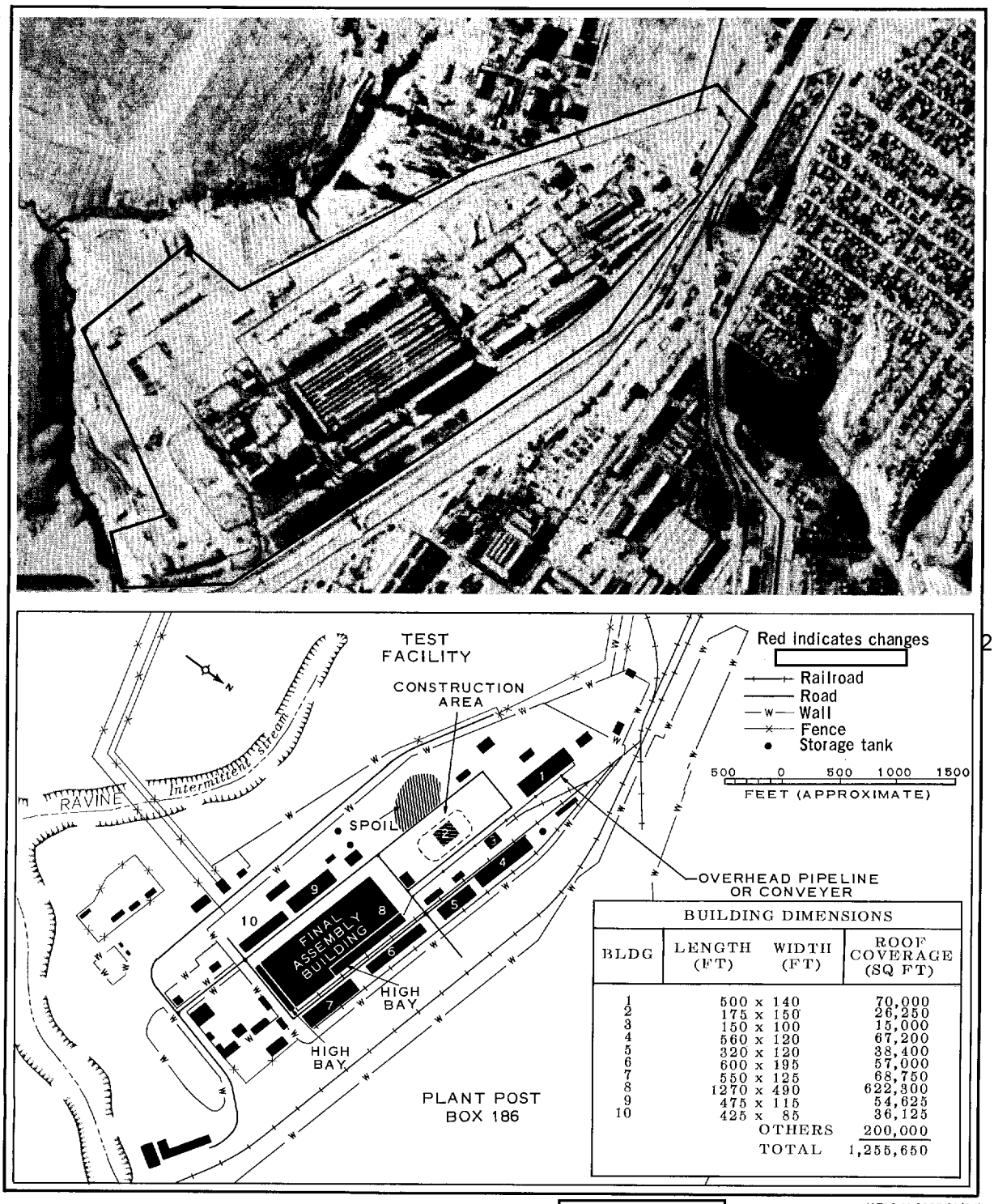

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FIGURE 4. PLANT POST BOX 192, [redacted]

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feet to the west adds approximately six acres to the plant. This enclosure and a small building within it have been constructed since [redacted]

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A production building (item 4) has been added in the northern part of the plant. This building has also been constructed since [redacted] Photography of [redacted] which was very hazy, revealed this building in the mid stage of construction. On [redacted] photography, it appeared complete, although the indistinct edges of what appeared to be two monitors extending the length of the roof indicated that some work remained to be done.

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[redacted] a building was under construction (item 2) west of the large final assembly building (item 8). The excavation for this structure had been started when the plant was first seen on photography of [redacted] Photography from subsequent missions revealed steady progress; spoil from the large hole was being piled across the road to the south. [redacted] a rectangular building foundation rising slightly above ground level was visible in the center of the excavation. Additional excavation and construction were also evident in a larger rectangular area surrounding the foundation. These features indicate that a single large rectangular structure may be constructed at this site and that the part of the structure over the foundation presently visible will require an unusually heavy supporting base.

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A small gable-roofed storage building (item 3) has also been constructed in the same area since [redacted] Buildings added [redacted] or presently under construction add more than 110,000 square feet to the plant, resulting in a total roof coverage of 1,255,650 square feet.

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25X1D

TEST FACILITY

The DMDPC Test Facility is located immediately west of Plant Post Box 192 (Figures 5 and 6). It is surrounded by a triple security fence and appears to have little direct road access to the other two areas of the plant. A rail spur enters the Test Facility from the north and serves several of the buildings, but does not appear to extend to any of the test stands. The major components of the facility consist of three large vertical test stands (items 1, 2, and 3, Figure 6) and numerous support structures in the northern half of the area and a number of smaller structures connected by a system of overhead pipelines in the southern half.

The installation appears to be active as evidenced by photography of [redacted] on which blast marks can be seen in the snow at the bases of two of the stands. The mark at one stand (item 3) is cone shaped with the apex of the cone appearing to center on the stand. This would indicate that the stand has a single test position. The mark at the other stand (item 2) is irregular in shape and appears to have emanated from one side of the stand rather than from the center; this indicates the presence of more than one test position. No blast mark is present at the third test stand (item 1) on the [redacted] photography.

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25X1D

Two changes that took place during the [redacted] period are worthy of note. First, the secured area has been increased in size by approximately 25 percent by the fencing of an additional area on the north-northwestern side of the facility. Except for an open ditch in the western corner, no new

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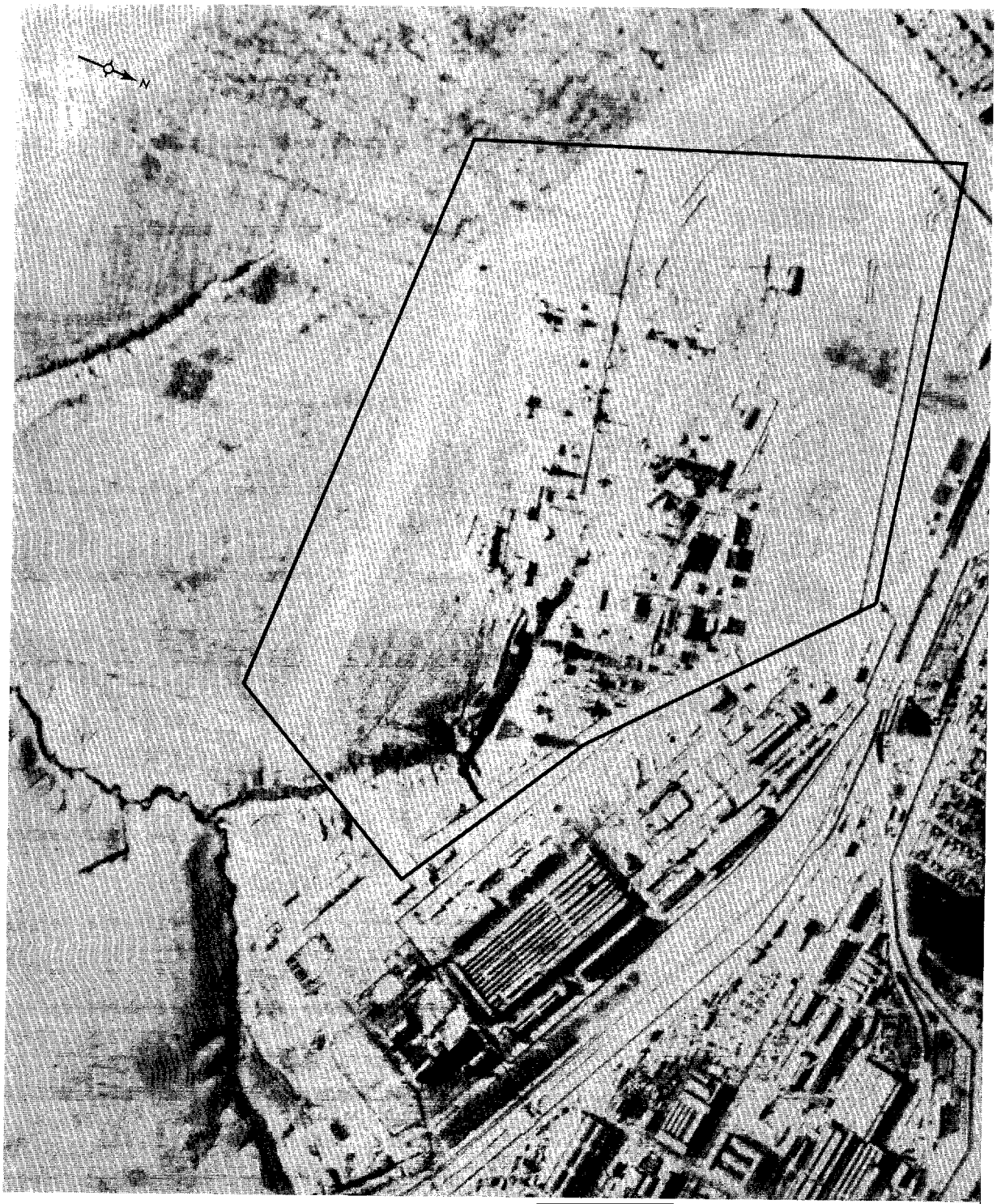

FIGURE 5. TEST FACILITY, [redacted]

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BUILDING DIMENSIONS		
BLDG	LENGTH (FT) WIDTH (FT)	ROOF COVERAGE (SQ FT)
1	40 x 40 x 11.5h	1,600
2	90 x 50 x 9.5h	4,500
3	70 x 40 x 11.5h	2,800
4	145 x 90	13,050
5	145 x 40	5,800
6	230 x 60	13,800
7	80 x 70	5,600
8	145 x 60	8,700
9	120 x 30	3,600
10	270 x 60	16,200
11	185 x 40	7,400
12	170 x 70	11,900
13	100 x 30	3,000
14	125 x 45	5,625
15	70 x 30	2,100
16	110 x 45	4,950
17	130 x 85	11,050
18	235 x 55	12,925
19	150 x 20	3,000
20	245 x 55	13,475

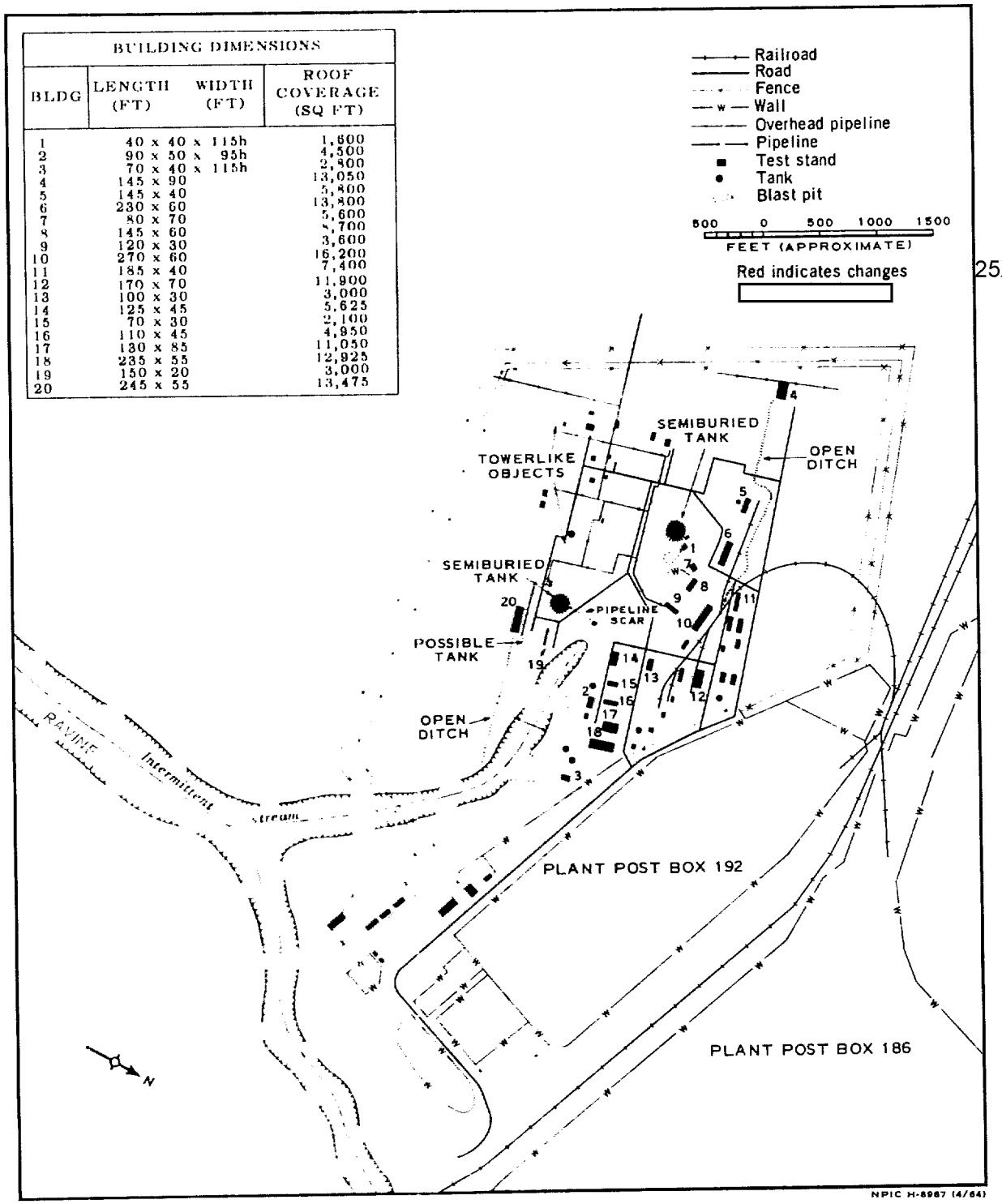

FIGURE 6. LAYOUT OF TEST FACILITY.

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construction or development has taken place in the newly enclosed area. Second, a large rectangular structure (item 4), measuring 145 by 90 feet, has been constructed at a relatively isolated site on the western edge of the test area. Indications that this structure may still be under construction are that it is difficult to determine the shape of the roof and that an open ditch extends from the structure to a building (item 10) in the center of the facility. Overhead pipelines of undetermined function appear to extend from the roof of this structure, downward to the ground to the north and south. These pipelines extend for short distances and have indefinite terminal points; this also suggests incomplete construction and/or intended further extension. A shallow excavation extends beyond the building on the south and southwest.

25X1D Two other features of the test facility, not new but discerned for the first time on [redacted]
25X1D [redacted] photography, are a system of overhead pipelines and a structure (item 20) of indefinite shape in the south-central part of the facility.

The system of overhead pipelines connects most of the structures in the northern half of the test area. Only one of the pipelines is seen near the test stands; this line appears to connect to a building (item 9) between two test stands (items 1 and 2). The locations of other terminal points of the pipelines system are vague. One pipeline extends beyond the triple fence on the western side of the facility; another appears to go underground between the outer and inner fences on the south; one enters a long, low structure (item 20) in four distributaries; and others branch out to groups of small structures. The function of these overhead pipelines is difficult to determine; no expansion bends are evident, and no supply source such as a water tower, fuel tank, or steam plant is discerned. Several large tanks are present in the area, but no direct connection to these tanks from the overhead pipeline system is visible. Although the diameter cannot be measured accurately, the large shadow cast by the pipelines and the possible supports indicates a large flow capacity.

A long, low structure (item 20) in the south-central part of the facility was seen more clearly on the [redacted] photography. 25X1D
It has indefinite, somewhat rounded edges which may indicate bunkering. Lines of the overhead pipeline system were observed entering one side of this building in four places, and on the opposite side four small dark areas where snow has melted may represent the effects of one of a variety of causes such as liquid spillage, blast, or heat exhaust. An open ditch extends from the northeastern corner of the structure to the edge of the nearby ravine.

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25X1D

REFERENCES

[redacted]

MAPS OR CHARTS

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ACIC. US Air Target Mosaic, Series 25, Sheet 0234-9998-1-25MA, 2d ed, Jun 53 (SECRET)

ACIC. US Air Target Mosaic, Series 50, Sheet 0234-21/7MA, 1st ed, Feb 61 (SECRET)

ACIC. US Air Target Mosaic, Series 200, Sheet 0234-21AL, 2d ed, Nov 60 (SECRET)

DOCUMENTS

1. NPIC. R-91/63, *Probable Missile Production Plants and Propulsion Test Facilities at Dnepropetrovsk, USSR,* Jun 63 (TOP SECRET [redacted]) 25X1

REQUIREMENT

NPIC. PC-83-64

NPIC PROJECT

N-96/64

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